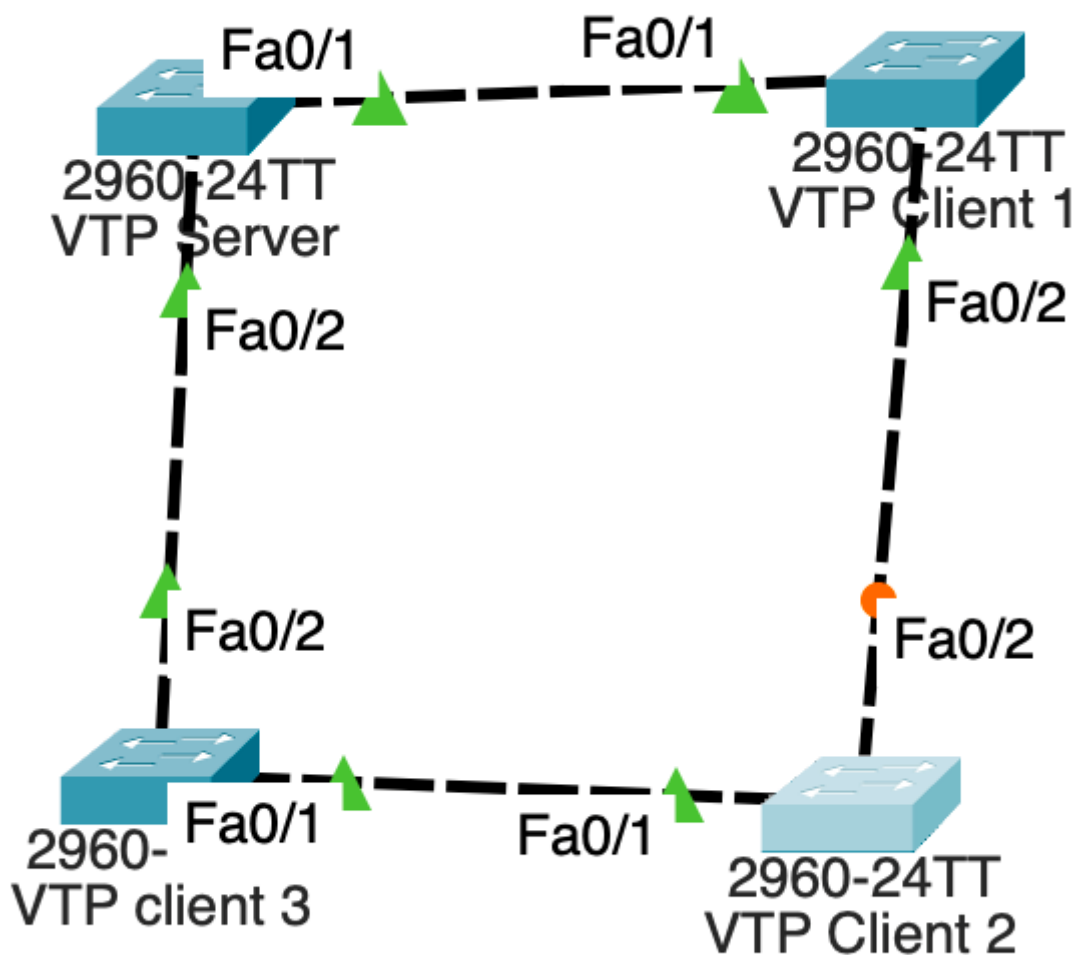


4th Assignment:

Applied Networking Lab WS 23/24



Question: (3 + 3 + 5 =11 Points): VLAN and VTP lab

Objective:

In modern networking, the efficient management of VLANs (Virtual Local Area Networks) and the propagation of VLAN information across switches are essential for maintaining network scalability and security. The VLAN Trunking Protocol (VTP) simplifies VLAN configuration and management by

managing VLAN configurations across multiple switches. In this assignment, we will explore the configuration of VTP in a network environment, along with the creation of VLANs and propagation of VLAN information

Deployment Steps:

1. Configure the VTP-SERVER switch as a VTP server
2. Connect to the 3 other switches and configure them as VTP clients. All links between switches must be configured as trunk lines.
3. Configure VTP domain name as "TESTDOMAIN" and VTP password as "cisco."
4. Configure VLAN 10 with name "STUDENTS" and VLAN 50 with name "SERVERS."
5. Check propagation on all switches of the VTP domain.

Expected Outcomes:

Show vtp status

Show vlan brief

Access the web server from a device in the network.

The web server should be accessible.

Assessment:

The assignment will be assessed based on the following criteria:

Correctness: (3 points) The solution should be configured correctly according to the specifications.

Completeness: (3 Points) The solution should include all of the required components and configurations.

Testing: (5 points) The solution should be tested thoroughly to ensure that it meets all the requirements.

Due Date: Saturday, January 20th, 2024, 10:00 am

Upload all relevant files (answers to theoretical questions as either PDF or .txt plus, pkt, GNS-3 config files, etc.) to ISIS:

<https://isis.tu-berlin.de/course/view.php?id=35211>